



Construction and Industry

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Question 1. (Single Select)

In response surface analysis, which of the following values for s and t weights would indicate that the target value and the boundaries are equally important?

- A: -3
- B: 1
- C: 0.7
- D: 0

Correct Answer: B

Explanation:

In phase 2 of response surface analysis, the s and t weights are based on the relationship between the target and the boundary. When the target and the boundary have equal value, the s and t weights are 0. When the target is more important than the boundary, the t weight is between 0.1 and 1.

Question 2. (Single Select)

From whose perspective is value defined in the lean methodology?

- A: Chief executive
- B: Competitor
- C: Customer
- D: Entry-level employee

Correct Answer: A

Explanation:

In the lean methodology, value is always defined from the perspective of the

customer. This was a radical shift in perspective when it was first introduced. Most businesses assessed value from the perspective of executives or in-house experts. In lean methodology, value is defined as the qualities or characteristics for which a customer is willing to compensate the business.

Question 3. (Single Select)

On an X-bar chart, what variable is always represented on the x-axis?

- A: Length
- B: Variations
- C: Time
- D: Errors

Correct Answer: D

Explanation:

On an X-bar chart, time is always represented on the x-axis. X-bar charts are control charts for variables data. The chart should resemble a chronological model of the process: as the bars move away from the y-axis, they represent the advancement of time. In order for an X-bar chart to be possible, any variation must be assigned a time value. Outlying values on the X-bar chart indicate the presence of special-cause variation.

Question 4. (Single Select)

Which of the following diagrams indicates the critical path of a process?

- A: Work breakdown structure

- B: Gantt chart
- C: Matrix diagram
- D: Value stream analysis

Correct Answer: A

Explanation:

A Gantt chart indicates the critical path of a process. The critical path is the sequence of steps that have a direct bearing on the overall length of the process. Some steps can be delayed without elongating the overall duration of the process: these steps are not considered to be on the critical path. A work breakdown structure depicts the organization of a process. To create a work breakdown structure, one isolates the various components of a problem and then considers the various contingencies associated with each component. A value stream analysis determines the elements of a process that add value to the finished product. These elements are targeted for special attention. Finally, a matrix diagram depicts the relative strengths of the relationships between the items in different groups. A matrix diagram might indicate causal relationships between various factors in a process or might simply indicate which of the factors are related.

Question 5. (Single Select)

Which of the following is a disadvantage of higher-order multiple regression models?

- A: These models do a poor job of defining the area around a stationary point.
- B: Comprehensive and detailed experiments must be performed on the main effects.
- C: These models rarely have clear peaks and valleys.
- D: Small regions are difficult to perceive.

Correct Answer: B

Explanation:

Comprehensive and detailed experiments must be performed on the main effects. One disadvantage of higher-order multiple regression models is that comprehensive and detailed experiments must be performed on the main effects. Otherwise, it will not be wise to assume that the results of the higher-order multiple regression models are useful or accurate. However, higher-order multiple regression models have a number of advantages. For one thing, they are excellent at clearly defining the area around a stationary point. They typically have well-defined peaks and valleys, which facilitates analysis. Also, they are very effective at mapping small regions in the process, so they are able to achieve a high level of precision and detail.



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